

GCTATAAGGA TCACGGGGCCC CAGTCGACGC TGAGCTCCTC TGCTACTCAG AGTTGCAACC TCAGCCTCGCT
 ARG GCT CCC AGC AGC CCC CGG CCC GCG CTG CTC GTC CTC GTC GCG GCT CTG TTC CCA
 MET ALA PRO SER SER PRO ARG PRO ALA LEU PRO ALA LEU LEU VAL LEU LEU GLY ALA LEU PHE PRO
 GGA CCT GGC AAT GCC CAG ACA TCT GTG TCC CCC TCA AAA GTC ATC CTC CCC CGG GGA GGC TCC GTG
 GLY PRO GLY ASN ALA GLN THR SER VAL SER PRO SER LYS VAL ILE LEU PRO ARG GLY GLY SER VAL
 CTG GTG ACA TGC AGC ACC TCC TGT GAC CAG CCC AAG TTG TTG GGC ATA GAG ACC CCG TTG CCT AAA
 LEU VAL THR CYS SER THR SER CYS ASP GLN PRO LYS LEU LEU GLY ILE GLU THR PRO LEU PRO LYS
 AAG GAG TTG CTC CTG CCT GGG AAC AAC CGG AAG GTG TAT GAA CTG AGC AAT GTG CAA GAA GAT AGC
 LYS GLU LEU LEU LEU PRO GLY ASN ASN ARG LYS VAL TYR TYR LEU LEU GLY ILE GLU THR PRO LEU PRO LYS
 CAA CCA ATG TGC TAT TCA AAC TGC CCT GAT GGG CAG TCA ACA GCT AAA ACC TTC CTC ACC GTG TAC
 GLN PRO MET CYS TYR SER ASN CYS PRO ASP GLY GLN SER THR ALA LYS THR PHE LEU THR VAL TYR
 TGG ACT CCA GAA CGG GTG GAA CTG GCA CCC CTC CCC TCT TGG CAG CCA GTG GGC AAG AAC CTT ACC
 TRP THR PRO GLU ARG VAL GLU LEU ALA PRO LEU PRO SER TRP GLN PRO VAL GLY LYS ASN LEU THR
 CTA CGC TGC CAG GTG GAG GGT GGG GCA CCC CGG GCC AAC CTC ACC GTG GTG CTC CTG GGG GAG
 LEU ARG CYS GLN VAL GLU GLY GLY ALA PRO ARG ALA ASN LEU THR VAL LEU LEU ARG GLY GLU
 AAG GAG CTG AAA CGG GAG CCA GCT GTG GGG GAG CCC GCT GAG GTC ACC ACC GTG CTG GTG AGG
 LYS GLU LEU LYS ARG GLU PRO ALA VAL GLY GLU PRO ALA GLU VAL THR THR THR VAL LEU VAL ARG
 AGA GAT CAC CAT GGA GCC AAT TTC TCG TGC CGC ACT GAA CTG GAC CTG CGG CCC CAA GGG CTG GAG
 ARG ASP HIS HIS GLY ALA ASN PHE SER CYS ARG THR GLU LEU ASP LEU ARG PRO GLN GLY LEU GLU

FIG. 1A

CTG TTT GAG AAC ACC TCG GCC CCC TAC CAG CTC CAG ACC TTT GTC CTG CCA GCG ACT CCC CCA CAA
 LEU PHE GLU ASN THR SER ALA PRO TYR GLN LEU GLN THR PHE VAL LEU PRO ALA THR PRO PRO GLN

 CTT GTC AGC CCC CGG GTC CTA GAG GTG GAC ACG CAG GGG ACC GTG GTC TGT TCC CTG GAC GGG CTG
 LEU VAL SER PRO ARG VAL LEU GLU VAL ASP THR GLN GLY THR VAL VAL CYS SER LEU ASP GLY LEU

 TTC CCA GTC TCG GAG GCC CAG GTC CAC CTG GCA CTG GGG GAC CAG AGG TTG AAC CCC ACA GTC ACC
 PHE PRO VAL SER GLU ALA GLN VAL HIS LEU ALA LEU GLY ASP GLN ARG LEU ASN PRO THR VAL THR

 TAT GGC AAC GAC TCC TTC TCG GCC AAG GCC TCA GTC AGT GTG ACC GCA GAG GAC GAG GGC ACC CAG
 TYR GLY ASN ASP SER PHE SER ALA LYS ALA SER VAL SER VAL THR ALA GLU ASP GLU GLY THR GLN

 CGG CTG ACG TGT GCA GTA ATA CTG GGG AAC CAG AGC CAG GAG ACA CTG CAG ACA GTG ACC ATC TAC
 ARG LEU THR CYS ALA VAL ILE LEU GLY ASN GLN SER VAL SER GLN GLU THR LEU GLN THR VAL THR ILE TYR

 AGC TTT CCG GCG CCC AAC GTG ATT CTG ACG AAG CCA GAG GTC TCA GAA GGG ACC GAG GTG ACA GTG
 SER PHE PRO ALA PRO ASN VAL ILE LEU THR LYS PRO GLU VAL SER GLU GLY THR GLU VAL THR VAL

 AAG TGT GAG GCC CAC CCT AGA GCC AAG GTG ACG CTG AAT GGG GTT CCA GCC CAG CCA CTG GGC CCG
 LYS CYS GLU ALA HIS PRO ARG ALA LYS VAL THR LEU ASN GLY VAL PRO ALA GLN PRO LEU GLY PRO

 AGG GCC CAG CTC CTG AAG GCC ACC CCA GAG GAC AAC GGG CGC AGC TTC TCC TGC TCT GCA ACC
 ARG ALA GLN LEU LEU LYS ALA THR PRO GLU ASP ASN GLY ARG SER PHE SER CYS SER ALA THR

 CTG GAG GTG GCC GGC CAG CTT ATA CAC AAG AAC CAG ACC CGG GAG CTT CGT GTC CTG TAT GGC CCC
 LEU GLU VAL ALA GLY GLN LEU ILE HIS LYS ASN GLN THR ARG GLU LEU ARG VAL LEU TYR GLY PRO

 CGA CTG GAC GAG AGG GAT TGT CCG GGA AAC TGG ACG TGG CCA GAA AAT TCC CAG CAG ACT CCA ATG
 ARG LEU ASP GLU ARG ASP CYS PRO GLY ASN TRP THR TRP PRO GLU ASN SER GLN GLN THR PRO MET

 TCC CAG GCT TGG GGG AAC CCA TTG CCC GAG CTC AAG TGT CTA AAG GAT GGC ACT TTC CCA CTG CCC
 CYS GLN ALA TRP GLY ASN PRO LEU PRO GLU LEU LYS CYS LEU LYS ASP GLY THR PHE PRO LEU PRO

FIG. 1B

ATC GGG GAA TCA GTG ACT GTC ACT CGA GAT CTT GAG GGC ACC TAC CTC TGT CGG GCC AGG AGC ACT
 ILE GLY GLU SER VAL THR VAL THR ARG ASP LEU GLU GLY THR TYR LEU CYS ARG ALA ARG SER THR

 CAA GGG GAG GTC ACC CGC GAG GTG ACC GTG AAT GTG CTC TCC CCC CGG TAT GAG ATT GTC ATC ATC
 GLN GLY GLU VAL THR ARG GLU VAL THR VAL ASH VAL LEU SER PRO ARG TYR GLU ILE VAL ILE ILE

 ACT GTG GTA GCA GCC GCA GTC ATA ATG GGC ACT GCA GGC CTC AGC ACG TAC CTC TAT AAC CGC CAG
 THR VAL VAL ALA ALA VAL ILE MET GLY THR ALA GLY LEU SER THR TYR LEU TYR ASH ARG GLN

 CGG AAG ATC AAG AAA TAC AGA CTA CAA CAG GCC CAA AAA GGG ACC CCC ATG AAA CCG AAC ACA CAA
 ARG LYS ILE LYS LYS TYR ARG LEU GLN ALA GLN LYS GLY THR PRO MET LYS PRO ASH THR GLN

 GCC ACG CCT CCC TGA ACCTATCCCG GGACAGGGCC TCTTCCTCGG CCTTCCCATTA TTGGTGGCAG TGGTGCCACA
 ALA THR PRO PRO ***

 CTGAACAGAG TGGAAAGACAT ATGCCATGCA GCTACACCTA CCGGCCCTGG GACGCCGGAG GACAGGGCAT TGTCCTCAGT

 CAGATACAAC AGCATTGGG GCCATGGTAC CTGCACACCT AAAACACTAG GCCACGCATC TGATCTGTAG TCACATGACT

 AAGCCAAGAG GAAGGAGCAA GACTCAAGAC ATGATTGATG GATGTTAAG TCTAGCCTGA TGAGAGGGGA AGTGGTGGG

 GAGACNTAGC CCCACCATGA GGACATACAA CTGGGAAATA CTGAAACTTG CTGCCCTATTG GGTATGCTGA GGCCCCACAGA

 CTTACAGAAG AAGTGGCCCT CCATAGACAT GTGTAGCATC AAAACACAAA GGCCCCACACT TCCTGACGGA TGCCAGCTTG

 GGCACCTGCTG TCTACTGACC CCAACCCTTG ATGATATGTA TTTATTCATT TGTATTATTA CCAGCTATTT ATTGAGTGTC

 TTTTATGTAG GCTAAATGAA CATAGGTCTC TGGCCTCAGG GAGCTCCCAG TCCATGTCAC ATTCAAGGTC ACCAGGTACA

 GTTGACAGG TTGTACACTG CAGGAGAGTG CCTGGCAAAA AGATCAAAATG GGGCTGGGAC TTCTCATTTG CCAACCTGCC

 TTTTCCCCAGA AGGAGTGATT TTTCTATCGG CACAAAAGCA CTATATGGAC TGGTAATGGT TCACAGGTTT AGAGATTACC

FIG. 1C

CAGTGAGGCC TTATTCCCTCC CTTCCCCCCC AACTGACAC CTTTGTTAGC CACCTCCCCA CCCACATACA TTTCTGCCAG
TGTTTACAATG ACACTCAGCG GTCATGTCTG GACATGAGTG CCCAGGGAAT ATGCCCAAGC TATGCCTTGT CCTCTTGTCC
TGTTTGCATT TCACCTGGGAG CTTGCACTAT TGCAGCTCCA GTTTCCTGCA GTGATCAGGG TCCTGCAAGC AGTGGGGAAG
GGGGCCCAAG TATTGGAGGA CTCCTCCCCA GCTTTGGAAG GGTCTCCGC GTGTGTGTGT GTGTGTATGT GTAGACAAGC
TCCTGGCTCTG TCACCCAGGC TGGAGTGCAG TGGTGCAATC ATGGTTCACT GCAGTCTTGA CCTTTTGGGC TCAAGTGATC
CTCCCCACCTC AGCCTCCTGA GTAGCTGGGA CCATAGGCTC ACAACACCAC ACCTGGCAAA TTTGATTTTT TTTTTTTTTT
TCAGAGACCG GGTCTCGCA CATTGCCCCAG ACTTCCTTG TGTAGTTAA TAAAGCTTC TCAACTGCCA AAAAAAAAAA
AAAAAA

FIG. 1D

FIG. 2A

TTCACATCAA AACTCCTATA CTGACCTGAG ACAGAGGCAG CAGTGATACC CACCTGAGAG ATCCTGTGTGTT TGA
 ACAAATG CTTCCTCAAAA CGGAAGGTAT TTCAAGCCCTA AACCTTTGGG TGAAAAGAAC TCTTGAAGTC ATG ATT
 met ile
 GGT TCA CAG TTT CTC TCA GCT CTC ACT TTG GTG CTT CTC ATT AAA GAG AGT GGA GCC TGG
 ala ser gln phe leu ser ala leu thr leu val leu leu ile lys glu ser gly ala trp
 TCT TAC AAC ACC TCC ACG GAA GCT ATG ACT TAT GAT GAG GCC AGT GCT TAT TGT CAG CAA
 ser tyr asn thr ser thr glu ala met thr tyr asp glu ala ser ala tyr cys gln gln
 AGG TAC ACA CAC CTG GTT GCA ATT CAA AAC AAA GAA GAG ATT GAG TAC CTA AAC TCC ATA
 arg tyr thr his leu val ala ile gln asn lys glu glu ile glu tyr leu asn ser ile
 TTG AGC TAT TCA CCA AGT TAT TAC TGG ATT GGA ATC AGA AAA GTC AAC AAT GTG TGG GTC
 leu ser tyr ser pro ser tyr trp ile gly ile arg lys val asn asn val trp val
 TGG GTA GGA ACC CAG AAA CCT CTG ACA GAA GAA GCC AAG AAC TGG GCT CCA GGT GAA CCC
 trp val gly thr gln lys pro leu thr glu glu ala lys asn trp ala pro gly glu pro
 AAC AAT AGG CAA AAA GAT GAG GAC TGC GTG GAG ATC TAC ATC AAG AGA GAA AAA GAT GTG
 asn asn arg gln lys asp glu asp cys val glu ile tyr ile lys arg glu lys asp val
 GCC ATG TGG AAT GAT GAG AGG TGC AGC AAG AAG AAG CTT GCC CTA TGC TAC ACA GCT GCC
 gly met trp asn asp glu arg cys ser lys lys leu ala leu cys tyr thr ala ala
 TGT ACC AAT ACA TCC TGC AGT GGC CAC GGT GAA TGT GTA GAG ACC ATC AAT AAT TAC ACT
 cys thr asn thr ser cys ser gly his gly glu cys val glu thr ile asn asn tyr thr
 TGC AAG TGT GAC CCT GGC TTC AGT GGA CTC AAG TGT GAG CAA ATT GTG AAC TGT ACA GCC
 cys lys cys asp pro gly phe ser gly leu lys cys glu gln ile val asn cys thr ala

CTG GAA TGC CCT GAG CAT GGA AGC CTG GTT TGC AGT CAC CCA CTG GGA AAC TTC AGC TAC
 leu glu ser pro pro glu his gly ser leu val cys ser his pro leu gly asn phe ser tyr

 AAT TCT TGC TGC TCT ATC AGC TGT GAT AGG GGT TAC CTG CCA AGC AGC ATG GAG ACC ATG
 asn ser ser cys ser ile ser cys asp arg gly tyr leu pro ser ser met glu thr met

 CAG TGT ATG TGC TCT GGA GAA TGC ACT GGT CTT ATT CCA GGC TGT AAT CTG GTT GAG TGT
 gln cys met ser ser gly glu trp ser ala pro ile pro ala cys asn val val glu cys

 GAT GCT GPG ACA AAT CCA GGC AAT GGG TTC GTG GAA TGT TTC CAA AAC CCT GGA AGC TTC
 asp ala val thr asn pro ala asn gly phe val glu cys phe gln asn pro gly ser phe

 CCA TGG AAC ACA ACC TGT ACA TTT GAC TGT GAA GGA TTT GAA CTA ATG GGA GCC CAG
 pro trp asn thr thr cys thr phe asp cys glu glu gly phe glu leu met gly ala gln

 AGC CTT CAG TGT ACC TCA TCT GGG AAT TCG GAC AAC GAG AAG CCA ACG TGT AAA GCT GTG
 ser leu gln cys thr ser ser gly asn trp asp asn glu lys pro thr cys lys ala val

 ACA TGC AGG GCC GTC CGC CAG CCT CAG AAT GGC TCT GTG AGG TGC AGC CAT TCC CCT GCT
 thr cys arg ala val arg gln pro gln asn gly ser val arg cys ser his ser pro ala

 GGA GAG TTC ACC TTC AAA TCA TCC TGC AAC TTC ACC TGT GAG GAA GGC TTC ATG TTG CAG
 gly glu phe thr phe lys ser ser cys asn phe thr cys glu glu gly phe met leu gln

 GGA CCA GGC CAG GTT GAA TGC ACC ACT CAA GGG CAG TGG ACA CAG CAA ATC CCA GTT TGT
 gly pro ala gln val glu cys thr thr gln gly gln trp thr thr gln gln ile pro val cys

 GAA GCT TTC CAG TGC ACA GCC TTG TCC AAC CCC GAG CGA GGC TAC ATG AAT TGT CTT CCT
 glu ala phe gln cys thr ala leu ser asn pro glu arg gly tyr met asn cys leu pro

FIG. 2B

ACT GCT TCT GGC AGT TTC CGT TAT GGG TCC AGC TGT GAG TTC TGT GAG CAG GGT TTT
 ser ala ser gly ser phe arg tyr gly ser ser cys glu phe ser cys glu gln gly phe

 GTG TTG AAG GGA TCC AAA AGG CTC CAA TGT GGC CCC ACA GGG GAG TGG GAC AAC GAG AAG
 val leu lys gly ser lys arg leu gln cys gly pro thr gly glu trp asp asn glu lys

 CCC ACA TGT GAA GGT GTG AGA TGC GAT GGT GTC CAC CAG CCC CCG AAG GGT TTG GTG AAG
 pro thr cys glu ala val arg cys asp ala val his gln pro pro lys gly leu val arg

 TGT GGT CAT TCC CCT AAT GGA GAA TTC ACC TAC AAG TCC TGT TST GGC TTC AGC TGT GAG
 cys ala his ser pro ile gly glu phe thr tyr lys ser ser cys ala phe ser cys glu

 GAG GGA TTT GAA TTA TAT GGA TCA ACT CAA CTT CAG TGC ACA TCT CAG GGA CAA TGG ACA
 glu gly phe glu leu tyr gly ser thr gln leu glu cys thr ser gln gly gln trp thr

 GAA GAG GTT CCT TCC TGC CAA GTG GTA AAA TGT TCA AGC CTG GCA GTT CCG GGA AAG ATC
 glu glu val pro ser cys gln val val lys cys ser ser leu ala val pro gly lys ile

 AAC ATG AGC TGC AGT GGG GAG CCC GTG TTT GGC ACT GTG TGC AAG TTC GCC TST CCT GAA
 asn met ser cys ser gly glu pro val phe gly thr val cys lys phe ala cys pro glu

 GGA TGG ACG CTC AAT GGC TCT GCA GCT CGG ACA TGT GGA GCC ACA GGA CAC TGG TCT GGC
 gly trp thr leu asn gly ser ala ala arg thr cys gly ala thr gly his trp ser gly

 CTG CTA CCT ACC TGT GAA GCT CCC ACT GAG TCC AAC ATT CCC TTG GTA GGT GGA CTT TCT
 leu leu pro thr cys glu ala pro thr glu ser asn ile pro leu val ala gly leu ser

 GCT GGT GGA CTC TCC CTC GCA TTA GCA CCA TTT CTC CTC TGG CTT CCG AAA TGC TTA
 ala ala gly leu ser leu leu thr leu ala pro phe leu leu trp leu arg lys cys leu

 CGG AAA GCA AAG AAA TTT GTT CCT GCC AGC AGC TGC CAA AGC CTT GAA TCA GAC GGA AGC
 arg lys ala lys lys phe val pro ala ser ser cys gln ser leu glu ser asp gly ser

FIG. 2C

TAC CAA AAG CTT TCT TAC ATC CTT TAA GTTCAAA AGAATCAGAA ACAGTTGCAT CTGGGGAACT A
tyr gln lys pro ser tyr lle leu ***

GAGGGATAC ACTGAAGTTA ACAGAGATAG ATACGCTCC TGGGTCTCTT GGGCCCTCTCT GCGTACTATG CCGAG
ATGCTT TTATGCTGTA AACCGCAACA GCGTCCAGCA CTTCATATAGA TCAAACTCCA GCGGGCAAGG ACGGCTT
TCA ACTGAAGAAAG CCGAGTGCTT CCTTTGCTAG TCCAGGATC AAGAAAGTGT TGGCTAATGA AGGGAAGGA
TATTTTCTCTT CAGCCAAAGG TGAAGAGACC AAGCTCTCTA AATCTCTGAA TTGCTTTTCT AACCTCTCTT TG
CTGCTGT AAAATCTTGG CACAGAAACA CAATATTTG TGGCTTTCTT TCTTTTGGCC TTCAACAGTGT TTCGA
CAGCT GATTACAGAG TTGCTGTCTAT ACAAATGAAT AATAATTATC CAGAGTTTAG AGGAAAAAAA TGACTAAA
AA TATTATAACT TAAAAAATG ACAGATGCTG ATGGCCCAACA GGC AAAATGCA TGGAGGGCTG TTAATGGCTG
AAATCCTACT GAATGCTCTG TGGAGGCTT ACTATGCACA ATTAATCAC TTTCATCCTT ATGGGATTCA GTG
CTTCTTA AAGAGTTCTT AAGGATTGAG ATATTTTTTAC TTGCATTGAA TATATTATAA TCTTCCATAC TTCTTC
ATTC AATACAAAGTG TGGTAGGAG TTAAAAAACT TGTAATGCT GTCAACTATG ATATGGTAAA AGTTACTTA
T TCTAGATTAC CCGCTCATG TTATTAAACA AATTATGTTA CATCTGTTT AAATTATTT CAAAAAGGGA A
ACTATTGTC CCGTAGCAAG GCATGATGTT AACCAAGATA AAGTTCTGAG TGTTTTACT ACAGTTCTTT TTTC
AAAAA TGGTAGAATT GGAGAGTAAA AACTGAATGG AAGGTTTGTA TATTGTCAGA TATTTTTC A GAAATAT
GTG GTTTCCAGCA TGAAAAACTT CCATGAGGCC AAAGTTTGG AACTANTAAA AGCATAAATG CAAACACACA
AAGGTATAAT TTTATGAAG TCTTTGTTGG AAAAGAATAC AGAAGATGG ATGTGCTTG CATTCCTACA AA
GATCTTG TCAGATGTTA TATGTAAACA TAAATCTTGT ATATTATGA AGATTTTAAA TTCACAATAG AAAC

FIG. 2D

CACCA TGTAAAGAG TCATCTGGTA GATTTTAAAC GAATGAAGAT GTCTAATAGT TATTCCTAT TTGTTTTTC
TT CTGTATGTTA GGCCTGCTCTG GAAGACAGGA ATGCCCTGTGT GAGCAAGCAT TTAATGTTTAT TTATAAGCAG
ATTTAACAAT TCCAAAGGAA TCTCCAGTTT TCAGTTGATC ACTGGCAATG AAAAATTCCTC AGTCAGTAAT TGC
CAAGGT GCTCTAGCCT TGAGGAGTGT GAGAATCAAA ACTCTCCCTAC ACTTCCATTA ACTTAGCATG TGTGTA
AAAA AAAAGTTTCA GAGAACTTCT GGTCTGAGAC TGGCAACGAC AAAGCCAACA GTCAAAACAG AGATGTGAT
A AGGATCAGAA CAGCAGAGGT TCTTTTAAAG GGGCAGAAA ACTCTGGGAA ATAAGAGAGA ACAACTACTG T
GATCAGGCT ATGTATGGAA TACAGTGTTA TTTTCTTTGA AATTGTTAA GTGTGTAA TATTTATGTA AACT
GCATTA GAAATTAGCT GTGTGAANA CCACTGTGCT TTCTGTTTGA GTTTTATTGA GAATTTTAAA TTATAAC
TTA AAATATTTTA TAATTTTAA AGTATATATT TATTTAAGCT TATGTCAGAC CTATTTGACA TAACACTATA
AAGGTTGACA ATAAATGTGC TTAATGTTT

FIG. 2E

FIG. 3A

CCGGGCCAC TGGCTTCAGG AGCTGAATAC CCTCCCAAGC ACACACAGGT GGGACACAAA TAAGGGTTTT GGA
 ACCAATA TTTTCTCATC ACGACAGCAA CTTAAG ATC CCT GGG AAG ATG GTC GTG ATC CTT GGA GCC
 met pro gly lys met val val ile leu gly ala
 TCA AAT ATA CTT TGG ATA ATG TTT CCA GGT TCT CAA GCT TTT AAA ATC GAG ACC ACC CCA
 ser asn ile leu trp ile met phe ala ala ser gln ala phe lys ile glu thr thr pro
 GAA TCT AGA TAT CTT GCT CAG ATT GGT GAC TCC GTC TCA TTG ACT TGC AGC ACC ACA GGC
 glu ser arg tyr leu ala gln ile gly asp ser val ser leu thr cys ser thr thr gly
 TGT GAG TCC CCA TTT TTC TCT TGG AGA ACC CAG ATA GAT AGT CCA CTG AAT GGG AAG GTG
 cys glu ser pro phe phe ser trp arg thr gln ile asp ser pro leu asn gly lys val
 ACG AAT GAG GGG ACC ACA TCT ACG CTG ACA ATG AAT CCT GTT AGT TTT GGG AAC GAA CAC
 thr asn glu gly thr thr ser thr leu thr met asn pro val ser phe gly asn glu his
 TCT TAC CTG TGC ACA GCA ACT TGT GAA TCT AGG AAA TTG GAA AAA GGA ATC CAG GTG GAG
 ser tyr leu cys thr ala thr cys glu ser arg lys leu glu lys gly ile gln val glu
 ATC TAC TCT TTT CCT AAG GAT CCA GAG ATT CAT TTG AGT GGC CCT CTG GAG GCT GGG AAG
 ile tyr ser phe pro lys asp pro glu ile his leu ser gly pro leu glu ala gly lys
 CCG ATC ACA GTC AAG TGT TCA GTT GCT GAT GTA TAC CCA TTT GAC AGG CTG GAG ATA GAC
 pro ile thr val lys cys ser val ala asp val tyr pro phe asp arg leu glu ile asp
 TTA CTG AAA GCA GAT CAT CTC ATG AAG AGT CAG GAA TTT CTG GAG GAT GCA GAC AGG AAG
 leu leu lys gly asp his leu met lys ser gln glu phe leu glu asp ala asp arg lys
 TCC CTG GAA ACC AAG AGT TTG GAA GTA ACC TTT ACT CCT GTC ATT CAG GAT ATT GGA AAA
 ser leu glu thr lys ser leu glu val thr phe thr pro val ile glu asp ile gly lys
 GTT CTT GTT TCC CGA GCT AAA TTA CAC AAT GAT GAA ATG GAT TCT GTG CCC ACA GTA AGG
 val leu val cys arg ala lys leu his ile asp glu met asp ser val pro thr val arg

CAG GCT GTA AAA GAA TTG CAA GTC TAC ATA TCA CCC AAG AAT ACA GTT ATT TCT CTG AAT
 gln ala val lys glu leu gln val tyr ile ser pro lys asn thr val ile ser val asn

 CCA TCC ACA AAG CTG CAA GAA GGT GGC TCT CTG ACC ATG ACC TGT TCC AGC GAG GGT CTA
 pro ser thr lys leu gln glu gly gln ser val thr met thr cys ser ser glu gly leu

 CCA GGT CCA GAT ATT TTC TGG ACT AAG AAA TTA GAT AAT GGG AAT CTA CAG CAG CTT TCT
 pro ala pro gln ile phe trp ser lys lys leu asp asn gly asn leu gln his leu ser

 GGA AAT GCA ACT CTC ACC TTA ATT GCT ATG ACG ATG GAA GAT TCT GGA ATT TAT GTG TGT
 gly asn ala thr leu thr leu ile ala met arg met glu asp ser gly ile tyr val cys

 GAA GGA GGT AAT TTG AAT GGG AAA AAC AGA AAA GAG GTG GAA TTA ATT GTT CAA GCA TTC
 glu gly val asn leu ile gly lys asn arg lys glu val glu leu ile val gln ala phe

 CCT ACA CAT CCA GAA ATC GAG ATG AGT GGT GGC CTC GTG AAT GGG AGC TCT CTC ACT CTA
 pro arg asp pro glu ile glu met ser gly gly leu val asn gly ser ser val thr val

 AGC TGC AAG GTT CCT AGC GTC TAC CCC CTT GAC GGG CTG GAG ATT GAA TTA CTT AAG GGG
 ser cys lys val pro ser val tyr pro leu asp arg leu glu ile glu leu lys gly

 CAG ACT ATT CTG CAG AAT ATA GAG TTT TTG GAG GAT ACG GAT ATG AAA TCT CTA GAG AAC
 glu thr ile leu glu asn ile glu phe leu glu asp thr asp met lys ser leu glu asn

 AAA AGT TTG GAA ATG ACC TTC ATC CCT ACC ATT GAA GAT ACT GGA AAA GCT CTT GTT TGT
 lys ser leu glu met thr phe ile pro thr ile glu asp thr gly lys ala leu val cys

 CAC GCT AAG TTA CAT ATT GAT GAC ATG GAA TTC GAA CCC AAA CAA AGC CAG ACT ACG CAA
 gln ala lys leu his ile asp asp met glu phe glu pro lys gln arg gln ser thr gln

 ACA CTT TAC GTC AAT GTT GGC CCC AGA GAT ACA ACC CTC TTG GTC ACC CCT TCC TCC ATC
 thr leu tyr val asn val ala pro arg asp thr thr val leu val ser pro ser ser ile

 CTG GAG GAA GAT ACT TGT GAG AAT AAG AAA TGC TTG AAG GGT TTT GGT CCG AAA
 leu glu glu gly ser ser val asn met thr cys leu ser gln gly phe pro ala pro lys

FIG. 3B

ATC CTG TGG AGC AGG CAG CTC CCT AAC GGG GAG CTA CAG CCT CTT TCT GAG AAT GCA ACT
 ile leu trp ser arg gln leu pro asn gly glu leu gln pro leu ser glu asn ala thr

 CTC ACC TTA ATT TCT ACA AAA ATG GAA GAT TCT GGG GTT TAT TTA TCT GAA GGA ATT AAC
 leu thr leu ile ser thr lys met glu asp ser gly val tyr leu cys glu gly ile asn

 CAG GGT GGA ATA AGC AGA AAG GAA GAA CTG GAA TTA ATT ATC CAA GTT ACT GCA AAA GAC ATA
 gln ala gly arg ser arg lys glu val glu val gln ile ile gln val thr pro lys asp ile

 AAA GTT AAA GGT TTT CTT TTT GAG AGT CTC AAA GAA GGA GAC ACT GTC ATC TCT TGT
 lys leu thr ala phe pro ser glu ser val lys glu gly asp thr val ile ile ser cys

 ACA TGT GGA AAT GTT CCA GAA ACA TGG ATA ATC CTC AAG AAA AAA GCG GAG ACA GGA GAC
 thr cys gly asn val pro glu thr trp ile ile leu lys lys ala glu thr gly asp

 ACA GTA GTA AAA TCT ATA GAT GCG GCG TAT ACC ATC CGA AAG GCC CAG TTG AAG GAT GCG
 thr val leu lys ser ile asp gly ala tyr thr ile arg lys ala gln leu lys asp ala

 GGA GTA TAT GAA TGT GAA TCT AAA AAC AAA GTT GGC TCA CAA TTA AGA AGT TTA ACA CTT
 gly val tyr glu cys glu ser lys asn lys val gly ser gln leu arg ser leu thr leu

 GAT GTT CAA GGA AGA GAA AAC AAC AAA GAC TAT TTT TCT CCT GAG CTT CTC GTG CTC TAT
 asp val gln gly arg glu asn asn lys asp tyr phe ser pro glu leu val leu tyr

 TTT GCA TCC TCC TTA ATA ATA CCF GCC ATT GGA ATG ATA ATT TAC TTT GCA AGA AAA GCC
 phe ala ser ser leu ile ile pro ala ile gly met ile ile tyr phe ala arg lys ala

 AAC ATG AAG GGG TCA TAT AGT CTT GTA GAA GCA CAG AAA TCA AAA GTG TAG CTAATGCTTG
 asn met lys gly ser tyr ser leu val glu ala gln lys ser lys val ***

 ATATCTTCAA CTGGAACAC TATTTATCTG TGCANAATCT TATATCTCT CATCATTCCT TGAGAAANAC AAT

 GAGCTGA GAGGCAACT TCCCTGAAATG TATTGAACCT GGAAGAGAAAT GCCCATCTAT GTCCCTTGCT GTGAGC

 AAGA AGTCAAAGTA AACTGTGTTG CCTGAAGAAC ACTAATCTCC ATCAGATGA GAGAACTGA GGAGTTCCT

 T GATCTCTATA TACAAATACA TAAATTGAC AIAAGIAAAA TAAATATATG CCATAGCAAG ATTGCTTAAAA

TAGGACAGAC TGTATATATTA GATTGTENAA ATAACTAGTG TTGCTTGGAC TATTATAATT TAATGCATGT TAGG
AAABTT TCACATTAAT ATTGCTGAC AGCTGACCTT TGTCAATCTTT CTTCATATTTT ATTCCTTTTC ACAAAAT
TTTT ATTCCTATAT AGTTTATTTA CAATAAATTC AGSTTTGGTA AAGAAGCCGG GTTTTATATTT TTTATATAGACA
AATAAGTAAT AAGGGAGACA CTGGGTTGAC TTTCAGGTPAC TAAATACCTC AACCTATGCT ATATATGGTTG AC
TGGGTTTC TTTTATATAGI ACTGGCTGAG TAGGGAGATG TTTCAGGAAG TTGTTCTATC AGACTCCTGT GCAAC
TTTTCC CAATGTTGGCC TAAAAATGCA ACTTCTTTT ATTTCCTTT GTAAATGTTT AGGTTTTTTT GTATAGTA
AA GTATTAATTT CTGGAAATTA AAA

FIG. 3D

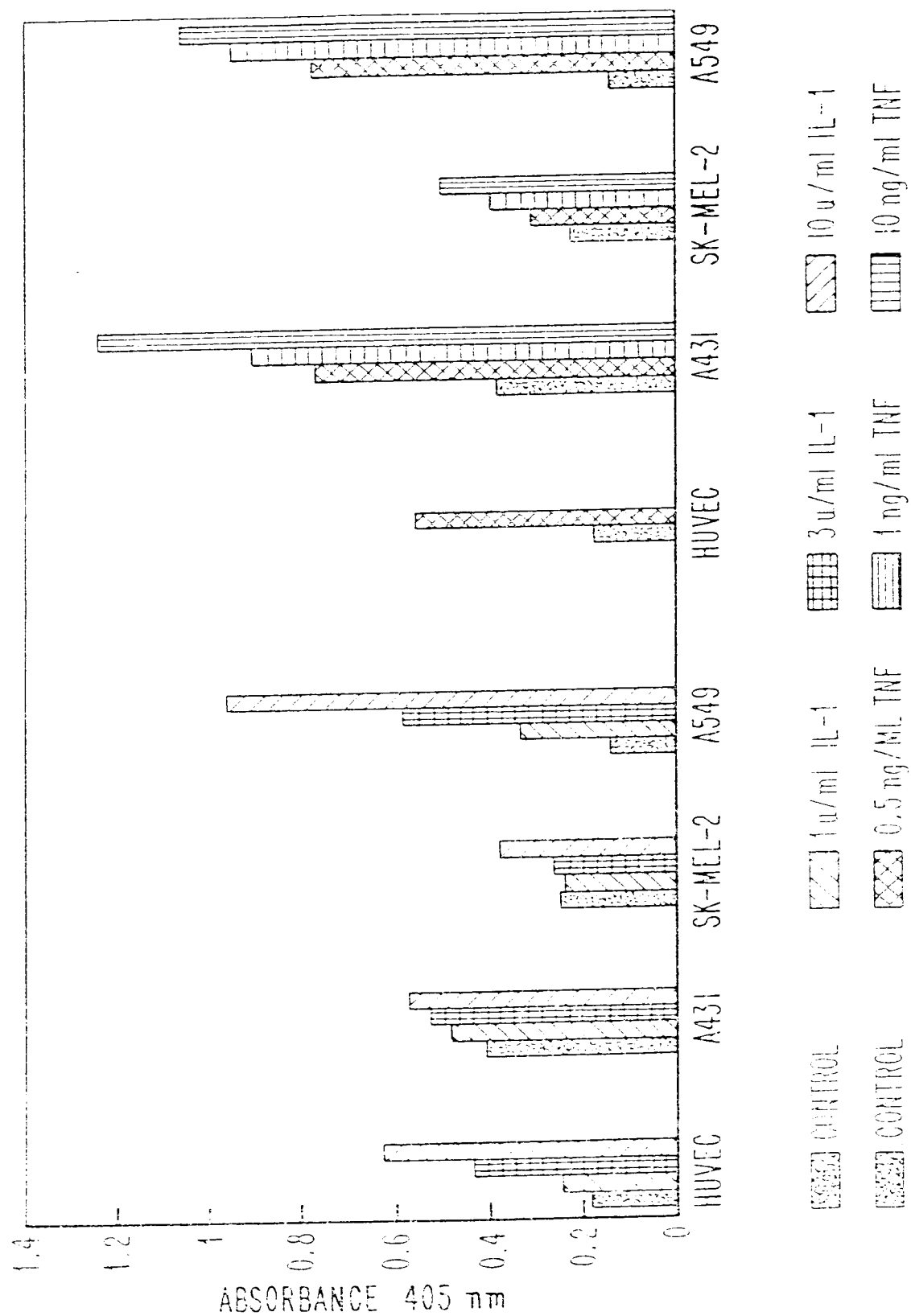


FIG. 4

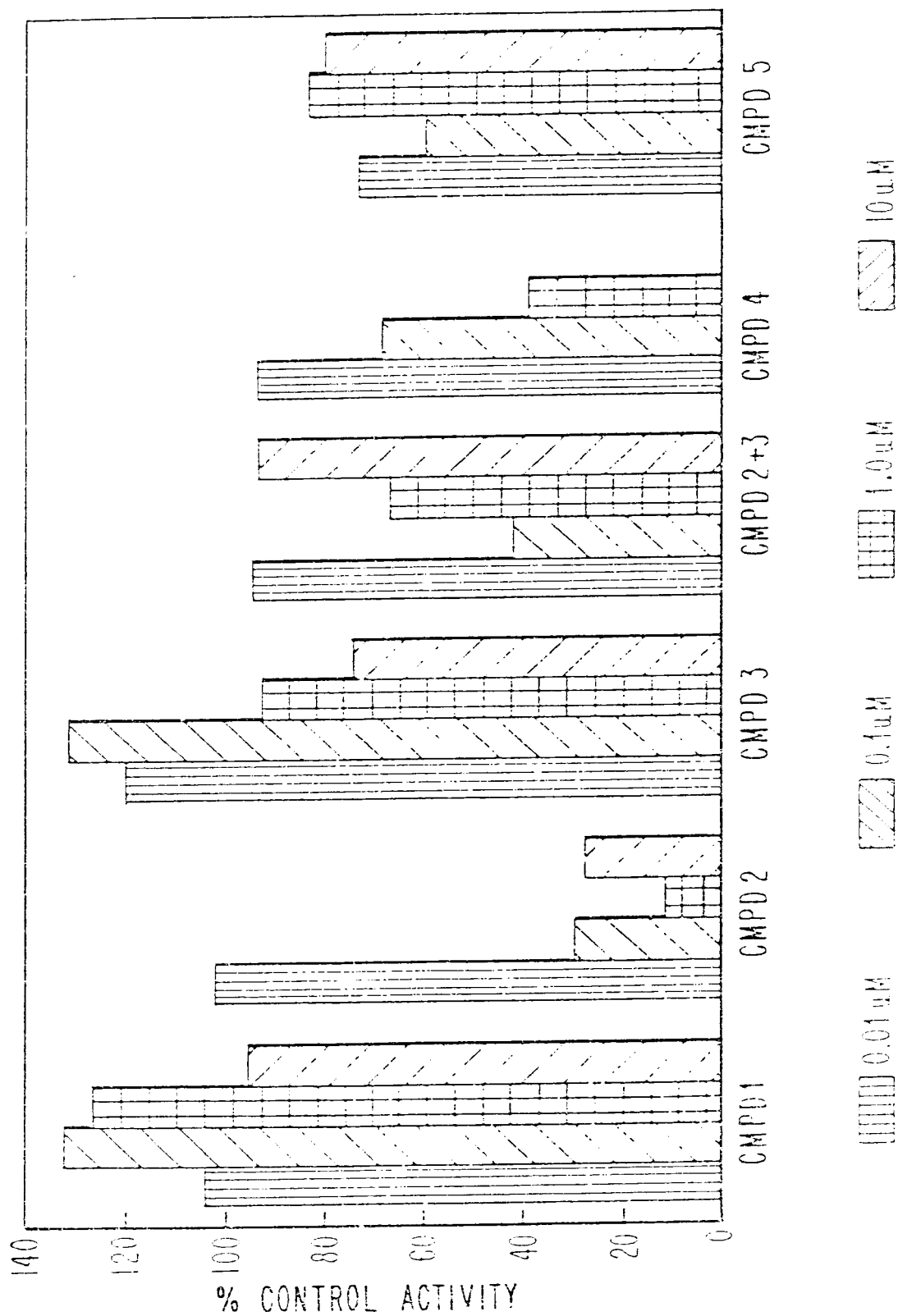


FIG. 5

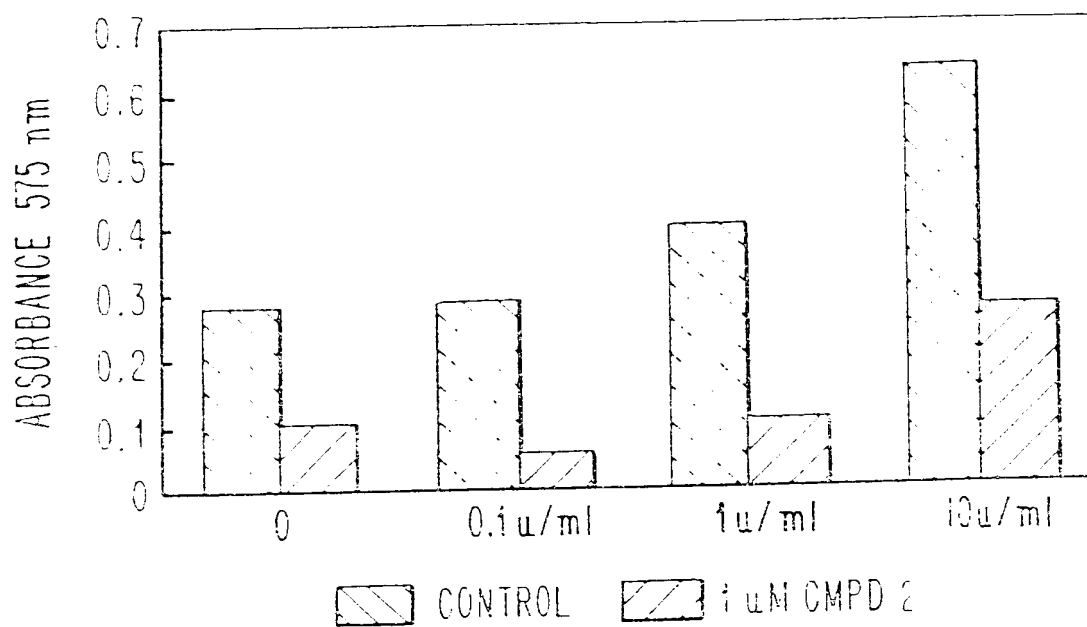


FIG. 6A

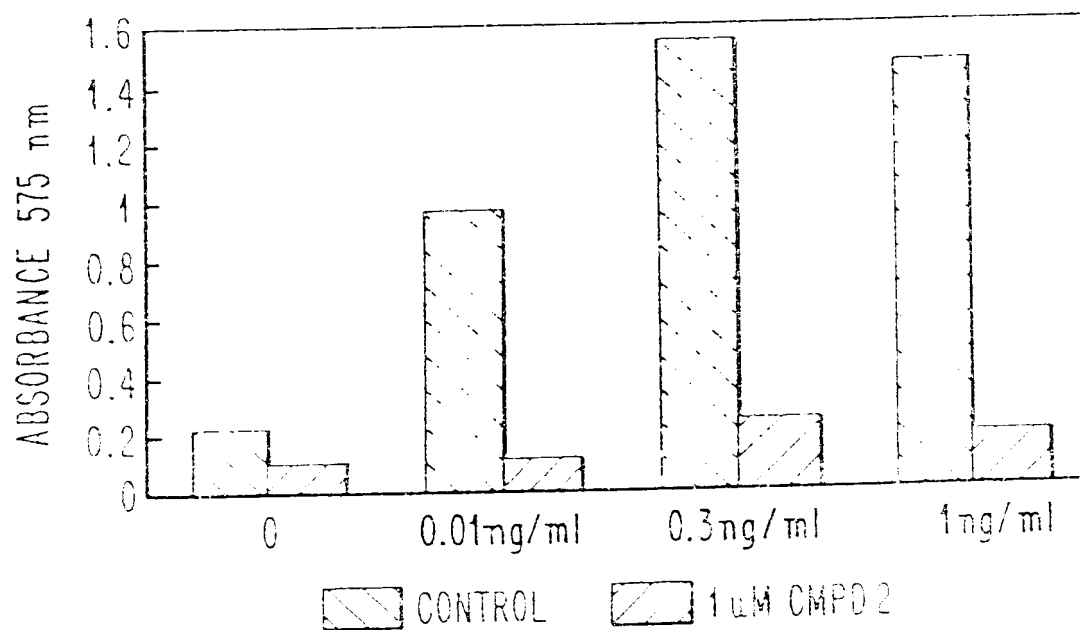


FIG. 6B

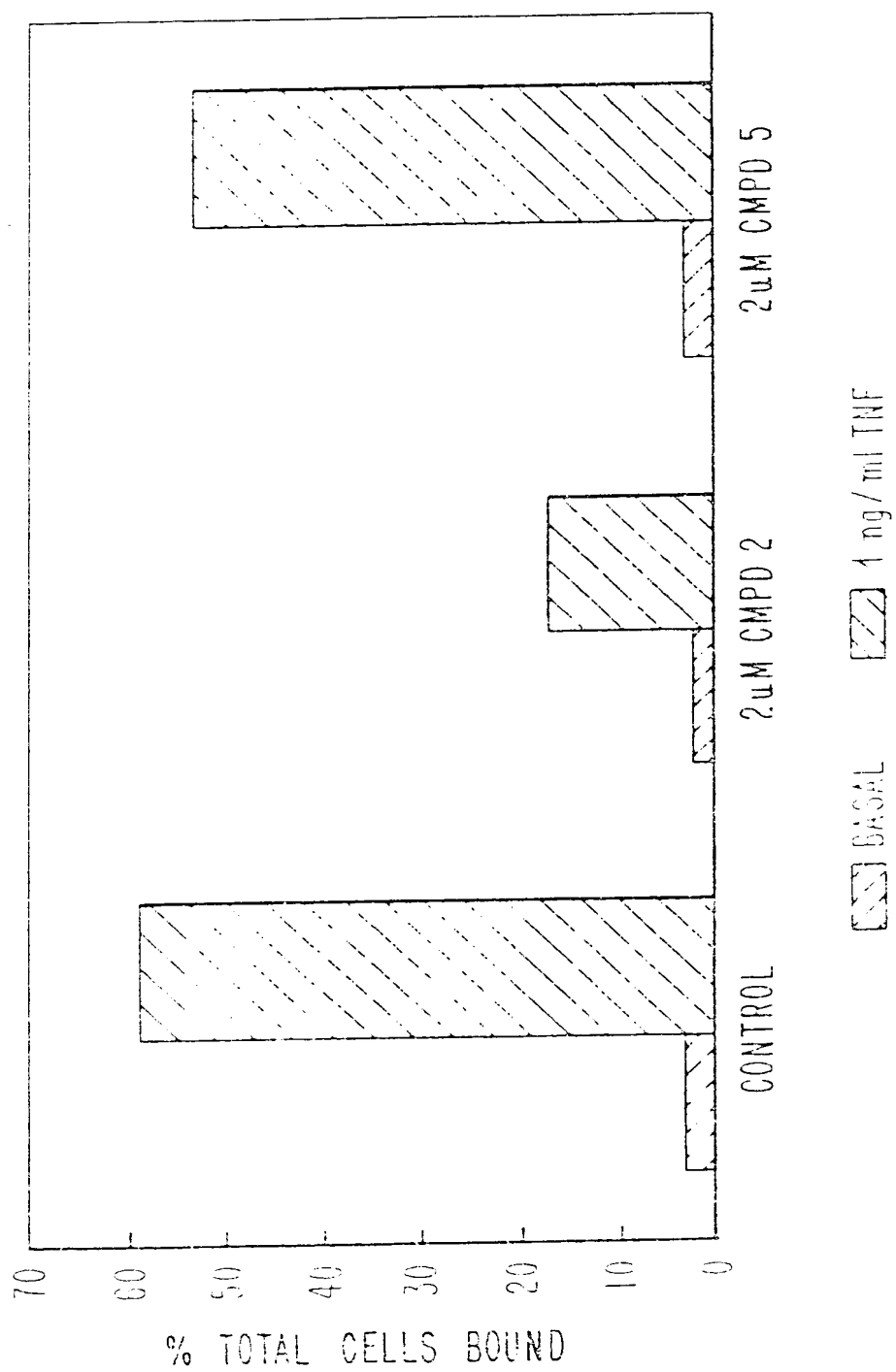
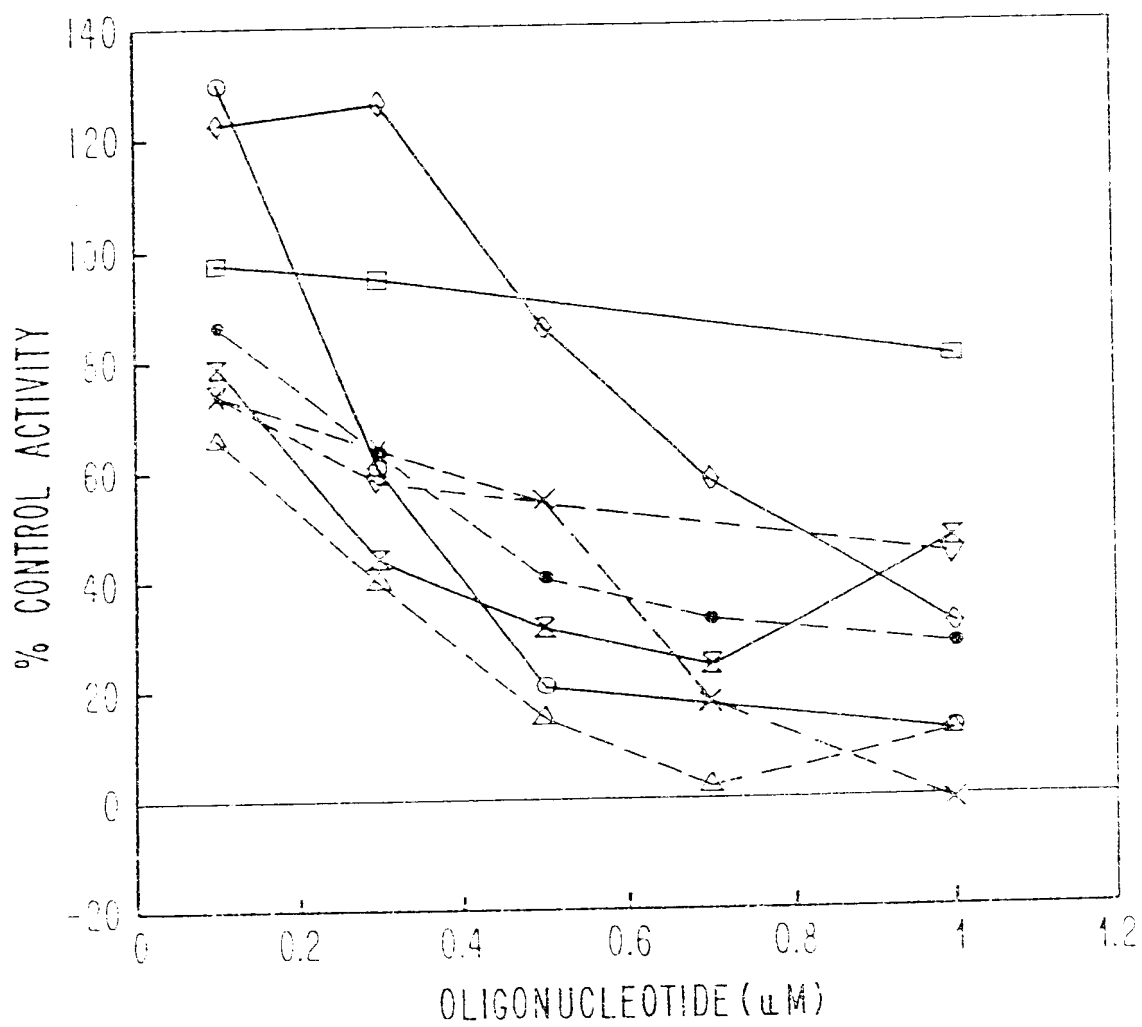
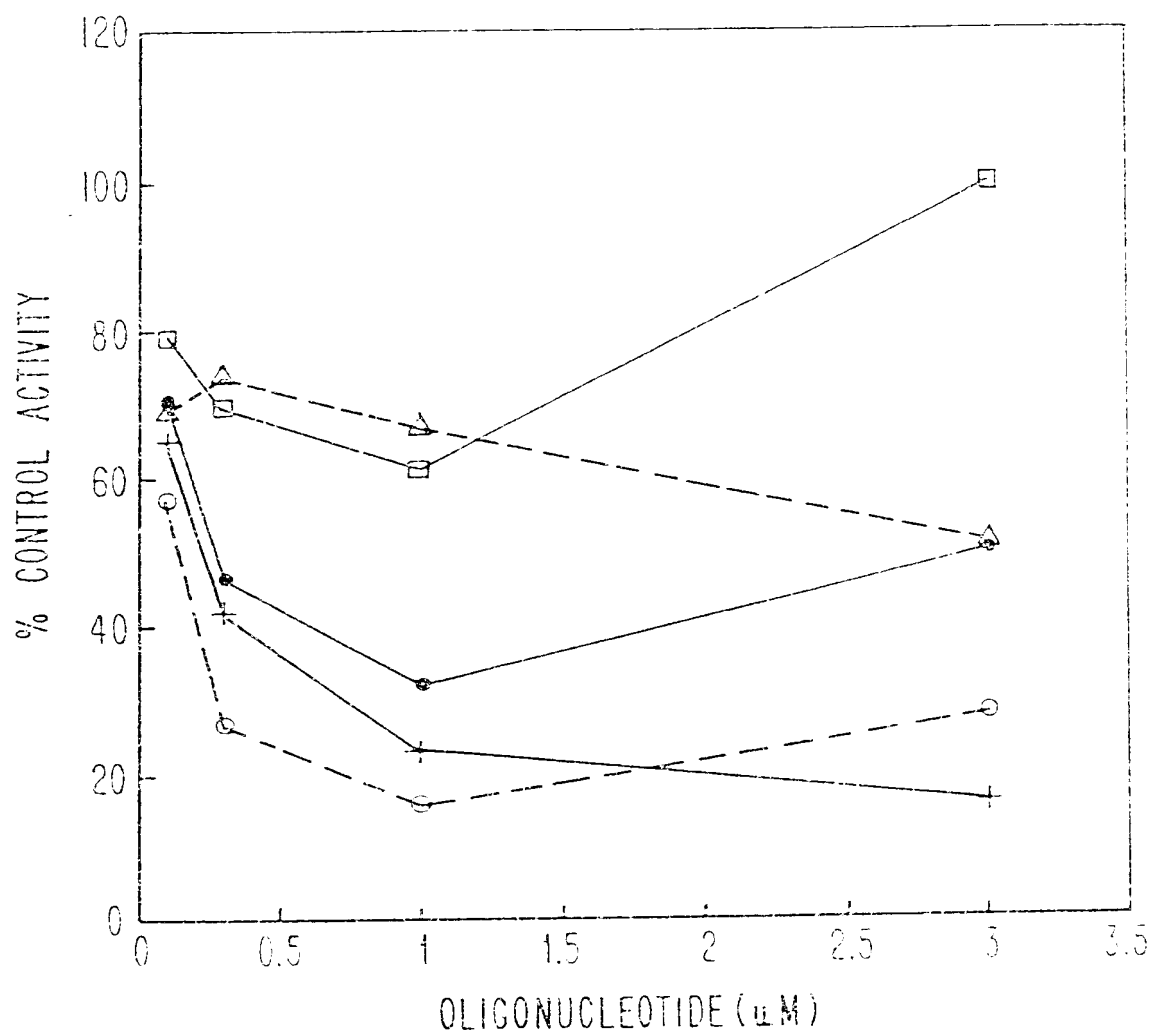


FIG. 7



● 1570 ○ 3067 ▽ 1931 □ 1932
 × 1939 ◇ 2507 △ 2502 ⊠ 1938

FIG. 8



• 1570

+ 1939

Δ 1940

\square 1821

\circ 2302

FIG. 9

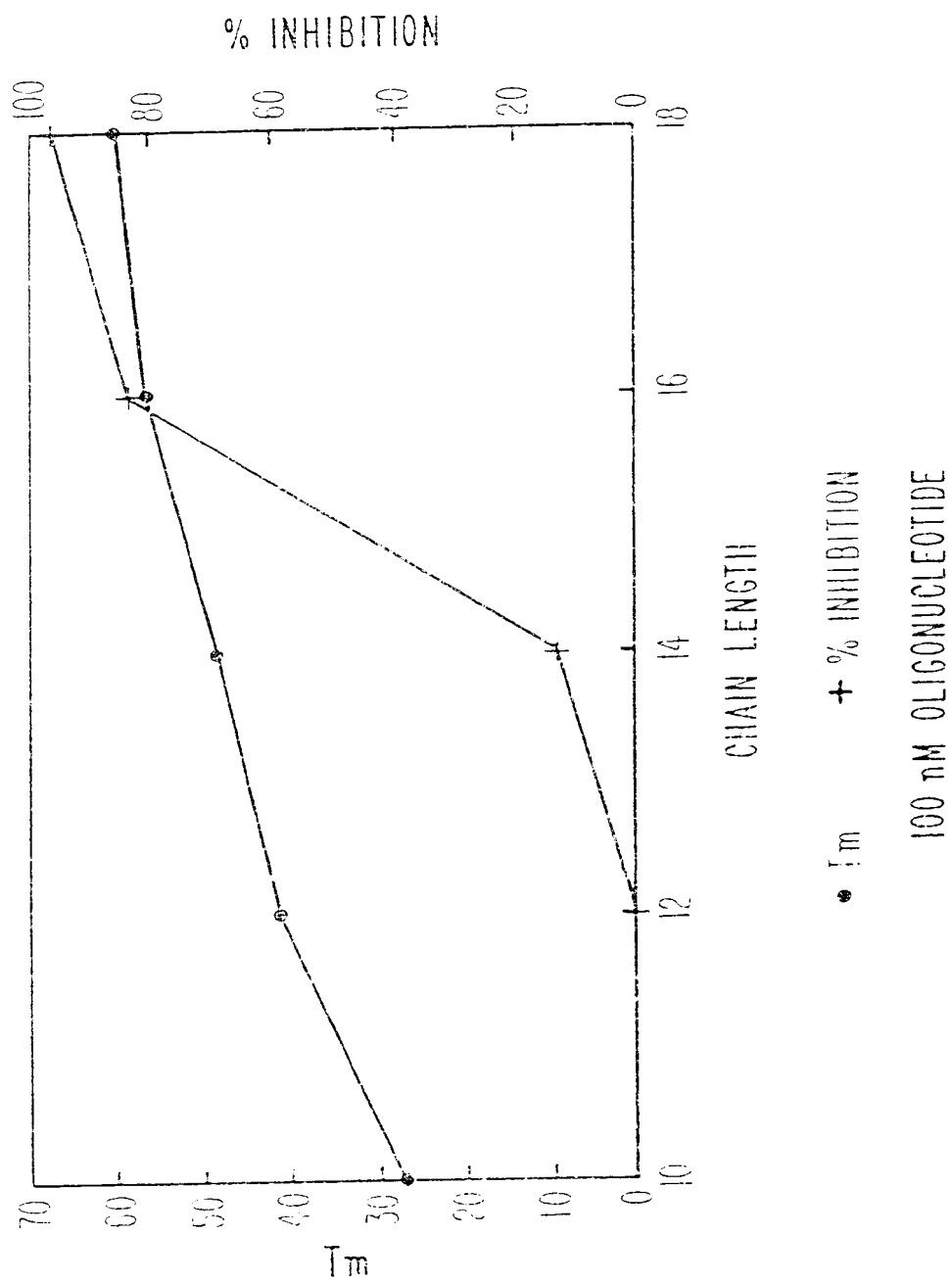


FIG. 10

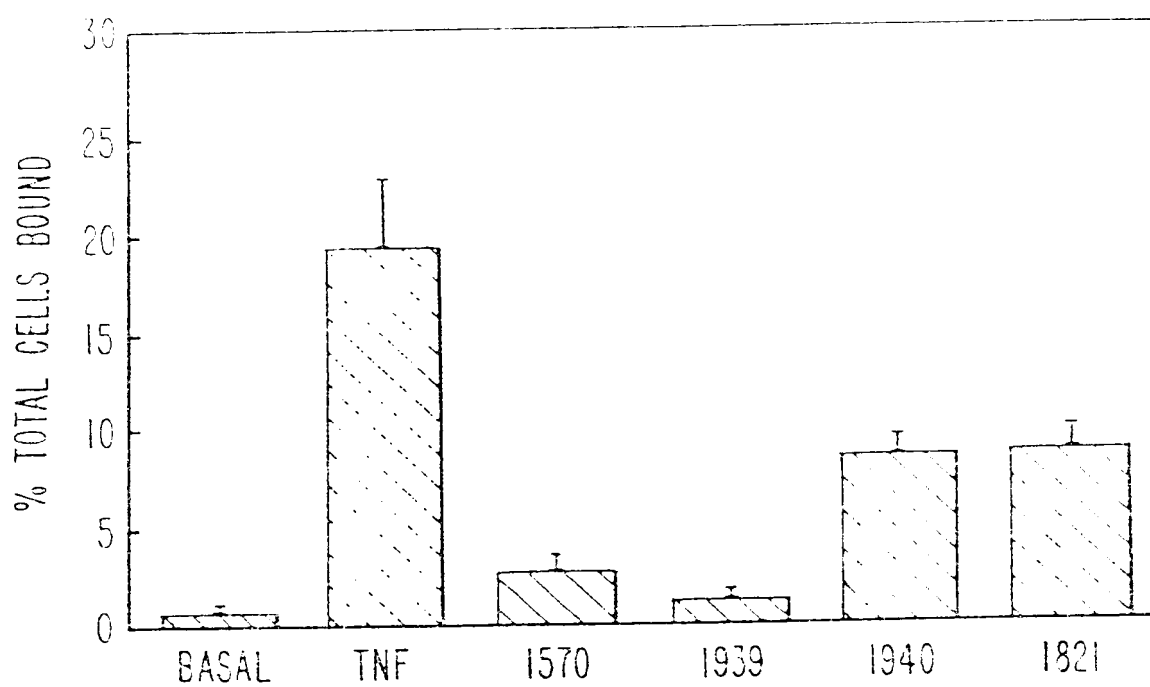
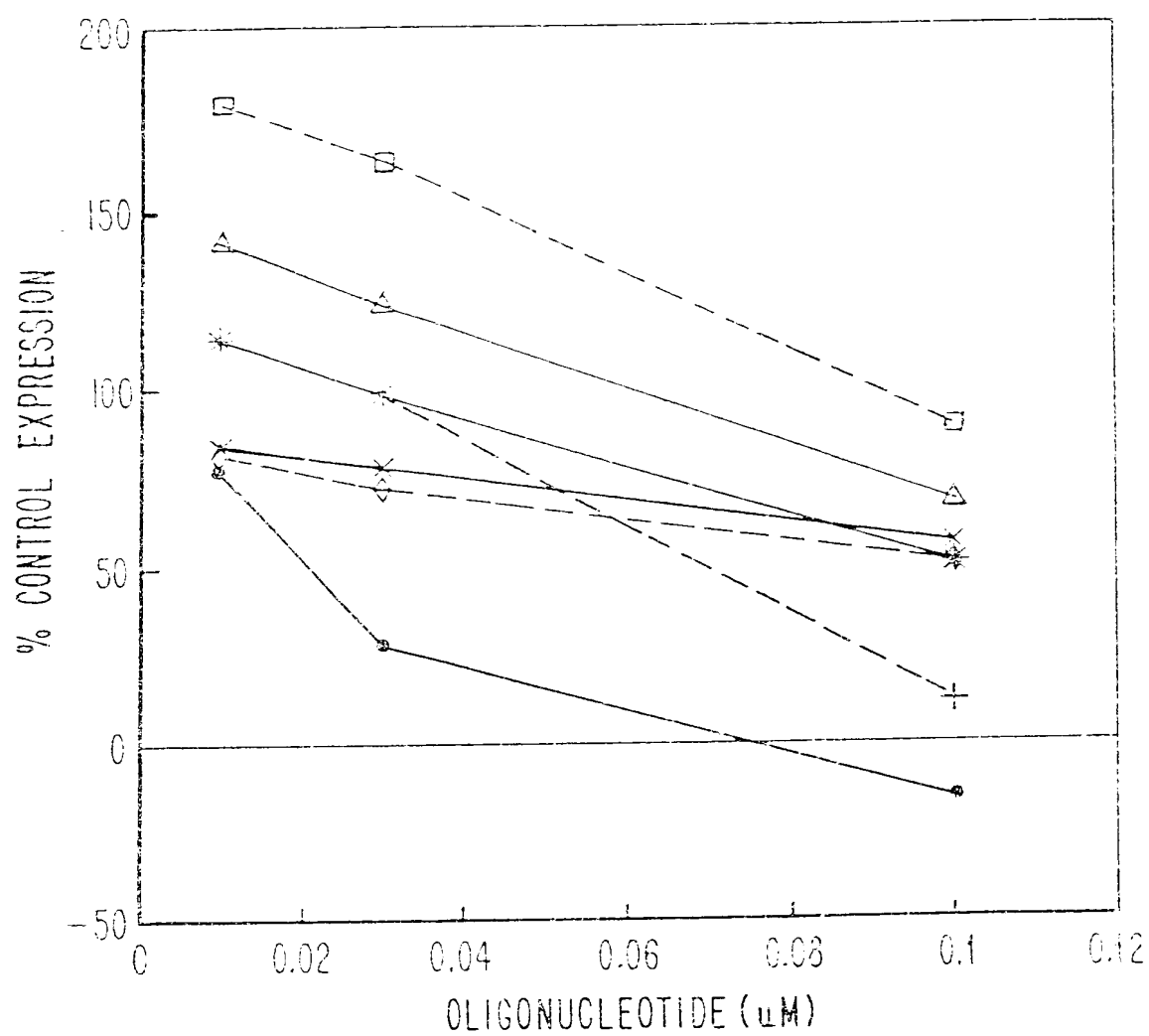


FIG. 11



• 2679 + 2674 * 2673 □ 2687
 × 2686 ◇ 2683 Δ 1571 (ICAM-1)

FIG. 12

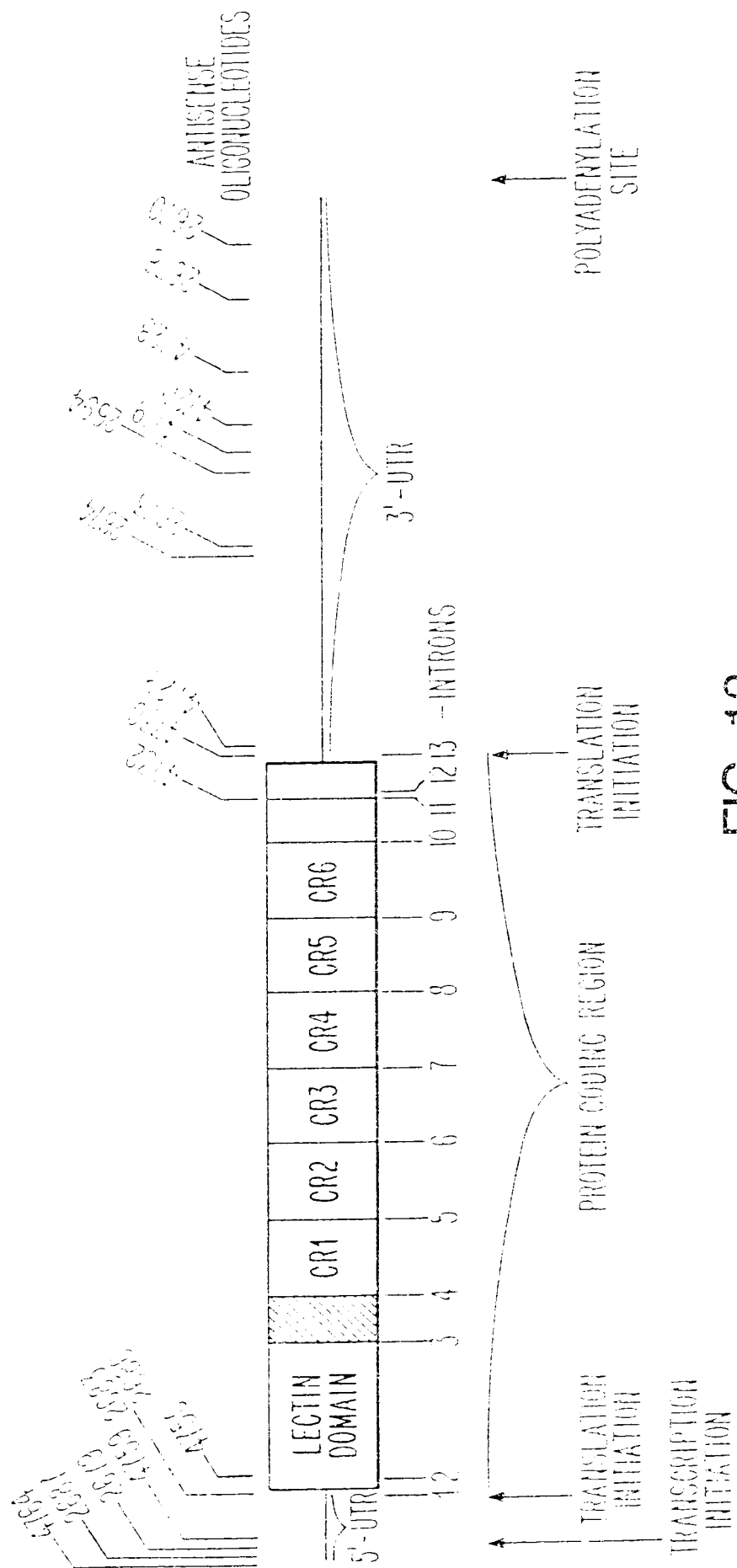


FIG. 13

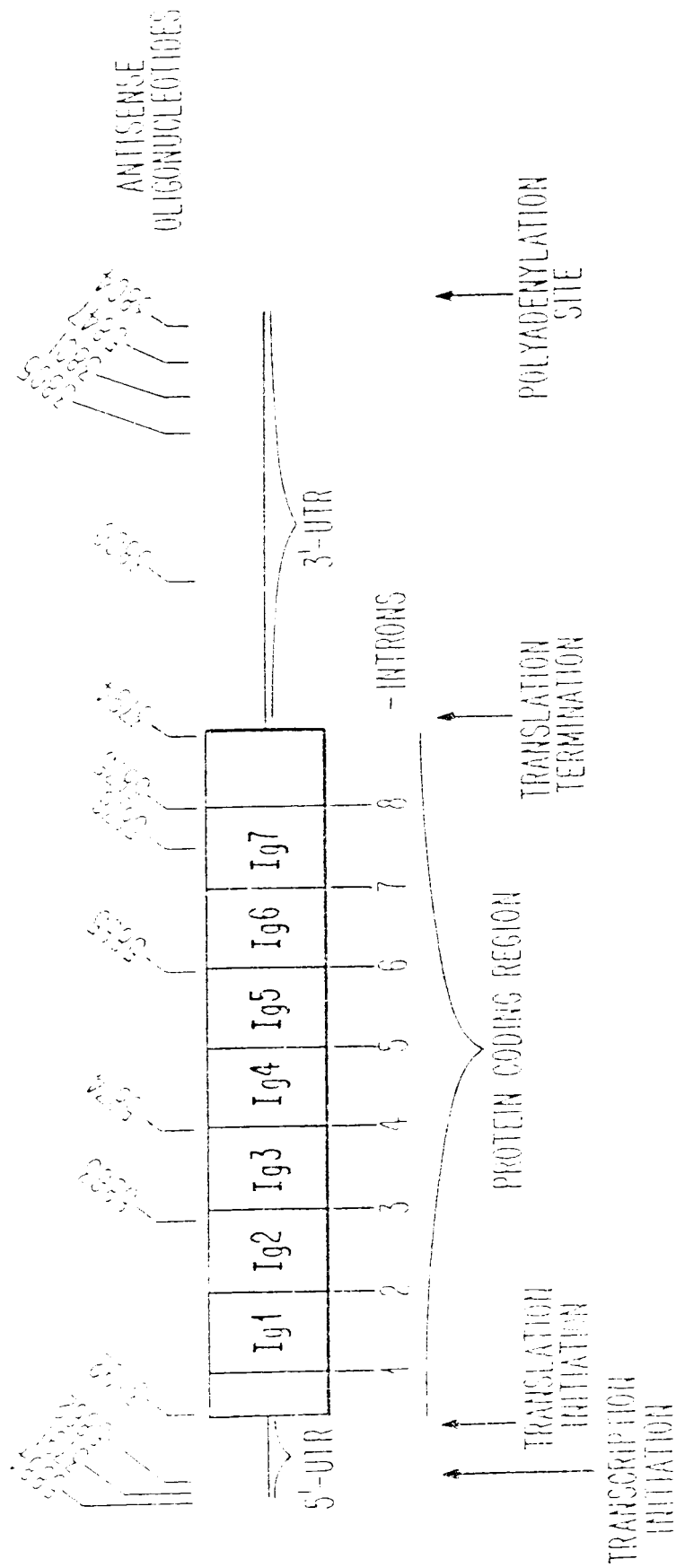


FIG. 14

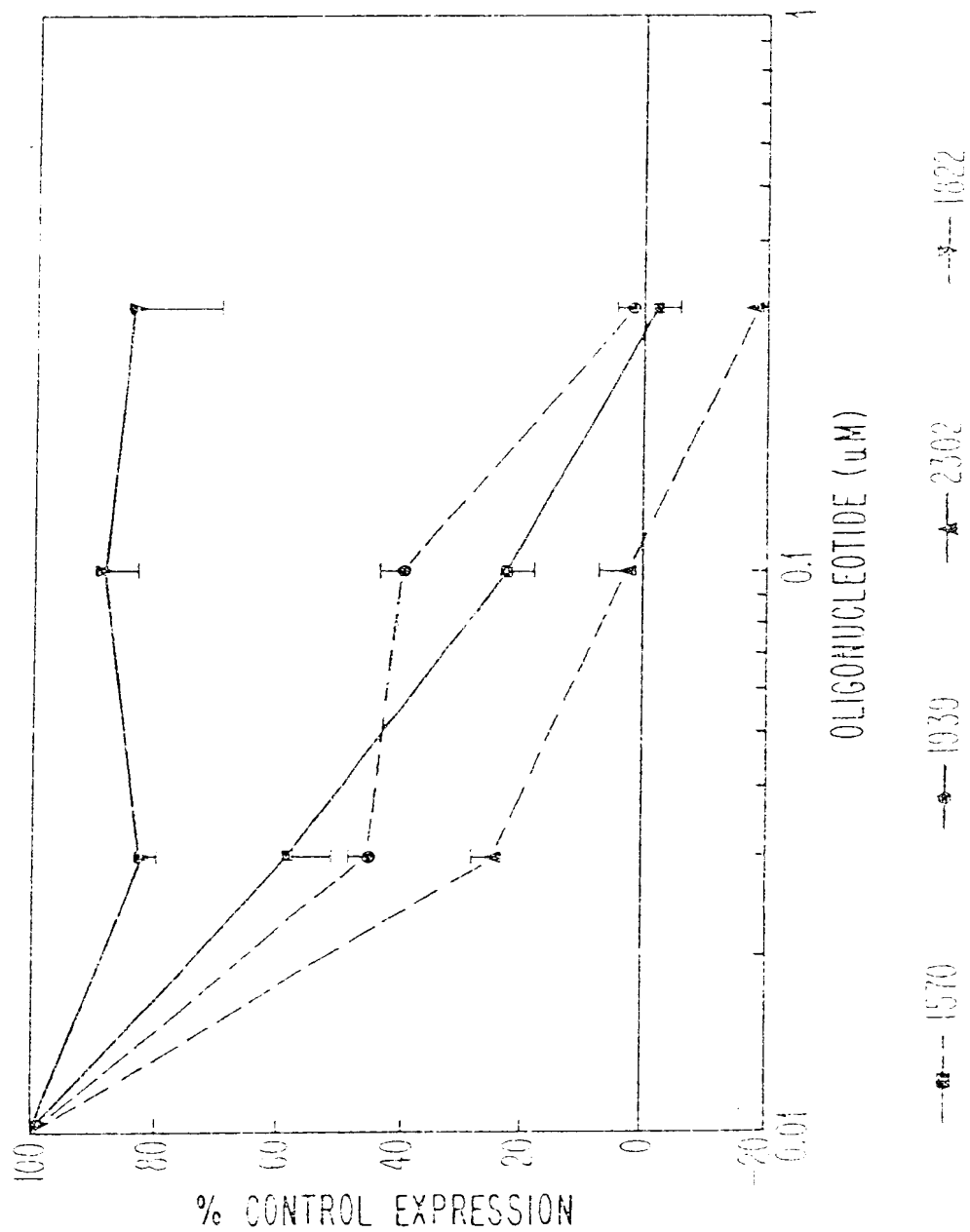


FIG. 15

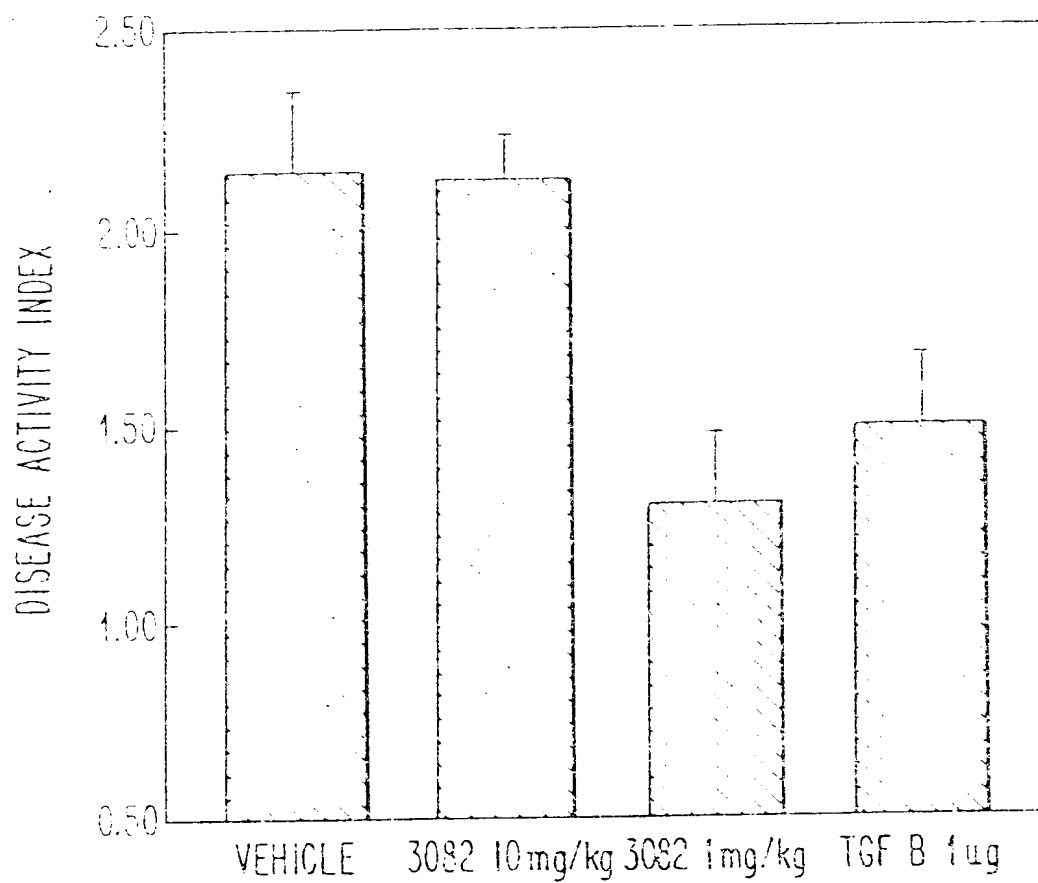


FIG. 16